

# 1 GLOSSARY

## 2 Advanced High-Capacity Transit (AHCT):

- 3 A general term used to describe several types of high capacity, line-haul transit modes.
- 4 AHCT is used to designate a future mode, such as LRT or BRT to serve the corridor
- 5 prior to the selection of the specific mode.

# 6 Affected Transportation Network:

- 7 Refers to the roadway segments, or "links," that are included in the analysis of
- 8 emissions of mobile source air toxics. The affected transportation network includes the
- 9 proposed project roadway segments and other links (roads) where traffic volumes
- 10 would be expected to change by plus or minus five percent as a result of the proposed
- 11 project.
- 12 Alternative:
- 13 General term that refers to possible approaches to meeting the need for and purpose of
- the project including corridor, transportation mode, and alignment. Typically refers to
- 15 the No Build and the Build Alternatives.

### 16 Alternative Alignment:

- 17 Refers to a proposed routing of the Build Alternative.
- 18 Ambient Air Quality:
- 19 The state of quality of the air in the surrounding environment.
- 20 Aquatic Resources:
- 21 For the purpose of this study, aquatic resources are defined as both adjacent and
- 22 isolated wetlands and waters.
- 23 Aquifer:
- 24 A water-bearing geologic unit of permeable rock, sand, or gravel that yields
- 25 considerable quantities of water to springs and wells.
- 26 Attainment:
- 27 Status of the various pollutants described in the National Ambient Air Quality
- 28 Standards (NAAQS). A condition where a pollutant meets NAAQS.
- 29 **Average Daily Traffic:**
- 30 Average traffic volume in a 24-hour period on a particular roadway.
- 31 **Build Alternative:**
- 32 The Build Alternatives consist of a roadway constructed or reconstructed on a new
- 33 existing location within the project area.
- 34 Bus Rapid Transit (BRT):
- 35 Combines the user-friendly aspects of some rail service with the flexibility of a bus
- 36 system. BRT can operate on streets, expressways, HOV lanes, or exclusive transitways.
- 37 Capacity Improvements:
- 38 The addition of travel lanes to accommodate more traffic volume.



#### 1 Carbon Monoxide (CO):

- 2 A colorless, odorless, poisonous gas that is formed as a product of the incomplete
- 3 combustion of carbon and is emitted directly by automobiles and trucks.

#### 4 Community Cohesion:

- 5 The connections between and within communities which are essential for serving the
- 6 needs of the residents.

#### 7 Commuter Rail:

- 8 A passenger rail service between a city center and its suburbs. It may use locomotives to
- 9 pull passenger cars, self-propelled passenger vehicles, or overhead-electric supplied
- 10 vehicles.

#### 11 Corridor:

12 General location of a highway and its surrounding areas.

#### 13 Crash Rate:

14 The number of crashes per 100 million vehicle miles traveled.

#### 15 **Cultural Resources:**

- 16 Patterned physical remains of human activity distributed over the landscape through
- 17 time.

# 18 Cumulative Effect/Impact:

- 19 An impact on the environment which results from the incremental impact of the action
- 20 when added to other past, present, and reasonably foreseeable future actions, regardless
- 21 of what agency (federal or non-federal) or person undertakes such other actions.

### 22 Diamond Lanes:

- 23 A class of HOV lanes that operate without the physical barriers, generally pavement
- 24 markings, to separate HOV traffic from general traffic.

#### 25 **Environmental Justice:**

- 26 In accord with Executive Order 12898, the avoidance of actions that cause
- 27 disproportionately high and adverse impacts on minority and low-income populations
- with respect to human health and the environment.

### 29 Floodplain:

- The portion of a river or stream valley, adjacent to the channel, which is covered with
- 31 water when the river or stream overflows its banks at flood stage. It is also defined as
- 32 low land and relatively flat areas adjoining inland and coastal waters including, at a
- 33 minimum, that area subject to a one percent or greater chance of flooding in any given
- year (the 100-year floodplain).

### 35 Floodway:

- The channel of a river or other watercourse and the adjacent land areas that must be
- 37 reserved in order to discharge the base flood without cumulatively increasing the water
- 38 surface elevation more than a designated height.

### 39 Groundwater:

- 40 Subsurface water that occurs beneath the water table in soils and geologic formations
- 41 that are fully saturated.





#### 1 Hazardous Air Pollutants:

- 2 HAPs refer to a range of compounds that include the precursors of ozone and are
- 3 known or suspected by the EPA to have serious health or environmental impacts.
- 4 MSATs are also considered HAPs.

# 5 Heterozygosity

6 The state of having two different alleles of the same gene.

# 7 High Occupancy Toll (HOT) Lanes:

- 8 HOT lanes charge low occupancy vehicles a toll, while high-occupancy vehicles are
- 9 allowed to use the lanes free or at a discounted toll rate.

### 10 High Occupancy Vehicle (HOV) Lanes:

- 11 Lanes used for carpools, vanpools, and buses and are usually separated from general-
- 12 purpose lanes by concrete traffic barriers.

# 13 Historic Archeological Site:

14 Any subsurface cultural manifestation dated post-European

## 15 **Impact/Effect:**

- 16 In environment analyses, the words "impact" or "effect" are used to express the extent
- 17 or severity of an environmental problem, e.g., the number of persons displaced by a new
- 18 transportation facility. As indicated in CEQ 1500 (Section 1508.8), impacts and effects are
- 19 considered to be synonymous. Impacts or effects may be ecological, aesthetic, historic,
- 20 cultural, economic, social, or health related, and they may be direct, indirect, or
- 21 cumulative.

## 22 Indirect Effect/Impact:

- 23 An impact that is caused by an action, and is later in time or farther in distance but is
- still reasonably foreseeable.

### 25 Intelligent Transportation Systems (ITS):

- 26 A broad range of activities and systems that use advanced technology to increase overall
- 27 transportation system efficiency. ITS technologies are applied to infrastructure, vehicles,
- 28 travelers, and the operators of transportation system components.

### 29 Interstate Highways (IH)/Freeways:

- 30 These are divided highways with two or more lanes designated for the exclusive use of
- 31 vehicular traffic. These roadways are intended to provide uninterrupted flow. There are
- 32 no signalized or stop-controlled at-grade intersections. Direct access from adjacent
- 33 properties is not permitted. Access is limited to ramp locations, and opposing directions
- 34 are separated by a raised barrier, a median, or a raised traffic island.
- 35 Examples of Interstate Highways are IH 10 and IH 35. The term "freeway" in this document is
- 36 consistent with terminology in the Transportation Research Boards (TRB) Highway Capacity
- 37 Manual (2000). Any divided arterial with complete access control and unimpeded traffic flow is
- designated a freeway, whether it is tolled or not.



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#### 2 Level of Service (LOS):

- 3 Operating conditions within a stream of traffic describing safety, traffic interruptions,
- 4 speed, freedom to maneuver, comfort, and convenience. Six levels of service are defined,
- 5 designated A through F, with A representing the best conditions and F the worst.

### 6 Light Rail Transit (LRT):

- 7 Typically a "light" vehicle that may operate in an open ROW or within a street in mixed-
- 8 flow with traffic. Overhead wires supply power to the transit vehicle. Light rail can
- 9 carry medium-to-heavy passenger volumes.

### 10 **Low-Income Population:**

- 11 A population whose household income is below the Department of Health and Human
- 12 Services poverty guidelines.

# 13 **Major Arterials:**

Roadways that carry a large number of vehicles, possibly serving more regional traffic.

## 15 Managed Facility:

- 16 A separate facility within a freeway that combines several desirable features to optimize
- 17 capacity, LOS, and air quality benefits. One feature is that the facilities have limited
- entry and exit opportunities. The second feature of a managed facility is the possible
- 19 collection of tolls as a means of value pricing. Value pricing means that tolls would
- 20 change based on peak-hour trips or vehicle occupancy.

#### 21 Mobile Source Air Toxics (MSATs):

- 22 A category of substances in the air that are known or suspected of causing cancer or
- 23 other health problems in humans, and for which a National Ambient Air Quality
- 24 standard (NAAQS) does not exist (i.e., excluding ozone, carbon monoxide, particulate
- 25 matter, sulfur dioxide, nitrogen oxide).

#### 26 **Mode (Transportation):**

- 27 Types of transportation uses that might include bus transit, HOV lanes, rail, bicycle, and
- 28 pedestrian.

### 29 National Register:

- 30 The National Register of Historic Places (NRHP), as maintained by the United States
- 31 Department of the Interior, pursuant to 16 USC § 470a. Properties listed in the Register
- 32 include districts, sites, buildings, structures, and objects that are significant in American
- 33 history, architecture, archeology, engineering, and culture. It is the nation's official list of
- 34 cultural resources worthy of preservation.

# 35 **NEPA Document:**

- 36 Any document or report prepared by or on behalf of a federal agency pursuant to the
- 37 National Environmental Policy Act (NEPA) for a project including, but not necessarily
- 38 limited to, any Environmental Assessment (EA), Finding of No Significant Impact, Draft
- 39 EIS, Final EIS, or Record of Decision, but not including any pre-decisional, deliberative,
- 40 or privileged materials.

#### 41 Nitrogen Oxide (NOx):

42 Colorless, sweet-tasting gas emitted directly by automobiles and trucks.





#### 1 Nonattainment:

- 2 An area that does not meet (or that contributes to ambient air quality in a nearby area
- 3 that does not meet) the national primary or secondary ambient air quality standard for
- 4 criteria pollutants.

### 5 **Notice of Intent (NOI):**

- 6 An NOI is published in the Federal Register to notify the public that an agency is
- 7 preparing an EIS.

#### 8 Ozone:

- 9 Unstable blue-colored gas with a pungent odor formed principally in indirect reactions
- 10 involving volatile organic compounds, nitrogen oxides and sunlight. Ground-level
- ozone is an air pollutant with harmful effects on our respiratory system.

# 12 Palustrine Emergent Wetland:

- 13 Wetlands that are characterized by erect, herbaceous vegetation present for most of the
- growing season (i.e., marshes, wet meadows, fens, sloughs, or potholes).

### 15 **Palustrine Forested Wetland:**

- 16 Wetlands that are characterized by woody vegetation greater than 20 feet (6 meters) in
- 17 height (i.e., swamps of bottomlands).

### 18 Palustrine Scrub-Shrub Wetland:

- 19 Wetlands that are characterized by woody vegetation less than 20 feet (6 meters) in
- 20 height (i.e., shrub swamps, or wet thickets).

#### 21 Preferred alternative:

- 22 The alternative that the proponent (FHWA/TxDOT/Alamo RMA) believes would fulfill
- 23 its statutory mission and responsibilities and is consistent with the need for and purpose
- 24 of the project, while giving consideration to economic, environmental, technical, and
- 25 other factors, including public and agency comments received in response to the Draft
- 26 EIS.

## 27 Prehistoric Archeological Site:

- 28 Any cultural manifestation predating European contact.
- 29 **Project:**
- 30 The whole of an action that has a potential for resulting in a physical change in the
- 31 environment, directly or ultimately, and that is any of the following:
- 32 (1) An activity directly undertaken by any public agency, including but not limited to
- 33 public works construction and related activities, clearing or grading of land
- 34 improvements to existing public structures, enactment and amendment of zoning
- 35 ordinances, and the adoption and amendment of local General Plans or elements thereof
- 36 pursuant to Government Code Sections 65100-62. An activity undertaken by a person,
- 37 which is supported in whole or in part through public agency contracts, grants,
- 38 subsidies, loans, or other forms of assistance from one or more public agencies.
- 39 (2) An activity involving the issuance to a person of a lease, permit, license, certificate, or
- 40 other entitlement for use by one or more public agencies.



- 1 Project Area:
- 2 The area bounded in which alternatives have been located.

### 3 Resource Study Area (RSA):

- 4 A geographic area that was identified for each resource, which was evaluated during the
- 5 cumulative effects analysis. The health of the resource was evaluated within the entire
- 6 RSA.
- 7 Riparian:
- 8 Pertaining to anything connected with or immediately adjacent to the banks of a stream.
- 9 **Section 106:**
- 10 Section 106 of the National Historic Preservation Act of 1966, 16 USC § 470(f). Pertains to
- 11 the protection and preservation of historic resources.
- 12 Section 4(f):
- 13 Section 4(f) of the Department of Transportation Act of 1966, 49 USC § 303(c). Pertains to
- the protection of a Section 4(f) resource. Section 4(f) Resource: Any park, recreation area,
- wildlife or waterfowl refuge or historic site that is protected under Section 4(f).
- 16 Transportation Demand Management (TDM):
- 17 Behavioral changes to commuters' travel habits that result in fewer vehicles during peak
- hours. Examples would be carpooling/vanpooling, employee trip reduction programs,
- 19 compressed work weeks, telecommuting, flex-time, and employer incentives.
- 20 Transportation System Management (TSM):
- 21 Management to make the existing transportation system as efficient as possible.
- 22 Examples would be park and ride lots, ridesharing, HOV facilities, traffic signal
- 23 coordination, and intersection improvements.
- 24 Travel Demand:
- 25 The number of users desiring to travel the highway system based on the available
- 26 roadway network.
- 27 Upland Habitat:
- 28 Land that has sufficient dry conditions for hydrophytic vegetation, hydric soils, and/or
- 29 wetland hydrology to be lacking. Any area that is not a wetland, deepwater aquatic
- 30 habitat, or other special aquatic site is considered upland habitat.
- 31 Vehicle Hours Traveled (VHT):
- 32 The time (in hours) that users spend on the roadway system during a specific time
- 33 period.
- 34 Viewshed:
- 35 All land seen from one static point.
- 36 Watershed:
- 37 A specific geographic area drained by a major stream or river.

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#### 1 Wetland (Isolated):

- 2 Those areas that are inundated or saturated by surface or groundwater at a frequency
- 3 and duration sufficient to support, and under normal conditions do support, a
- 4 prevalence of vegetation typically adapted for life in saturated conditions. Isolated
- 5 wetlands do not lie within the 100-year floodplain nor do they have a hydrologic
- 6 connection to navigable waters.

## 7 Wetland (Jurisdictional):

- 8 Those areas that are inundated or saturated by surface or groundwater at a frequency
- 9 and duration sufficient to support, and under normal conditions do support, a
- 10 prevalence of vegetation typically adapted for life in saturated conditions. Adjacent
- 11 wetlands also lie within the 100-year floodplain and/or have a hydrologic connection to
- 12 navigable waters.



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